





Ganga Vishnu Bhawan, Tikrapara Main Road, Nr. Sanyukta Hospital, Bilaspur (C.G.) 495001,

Telefax: 07752-428668, Ph.: 78699-83152, Mobile: 98270-90233, 78699-83752 Visit: www.sqcindia.co.in, email: sqc_india@rediffmail.com

Certificate of Analysis

TC Format No.: QR/TC/02 Rev. 01 (17.02.2016)

Name & Address of the Customer:	Test Report No. : 201902021569
M/s Hind Energy & Coal Benefication	Issue Date of INDIA SQ: IND 02-02-2019 A SQC INDIA
(India) Ltd., Sai Parisar, Shrikant	Work Order Nota Serbal Nota Society
Verma Marg, Bilaspur(CG)	WO Date : 24-01-2019
Nature of Sample : Coal Sample (as Described	Test Required NDIA SO: INDAS given belowed INDIA
by customer) VDIA SQC INDIA SQC INDIA SQC INDIA	SOCINDIA SOCINDIA SOCINDIA SOCINDIA
Sample Quantity 10 kg approx	Date of Registration : 24-01-2019
Sampling Date A SOC NM SOC INDIA SOC INDIA	Date of Commencement of Testing : 24-01-2019
Sample Collected by Submitted to Lab	Date of Completion of Testing : 28-01-2019
Sampling Protocol OC NM SOCINDIA SOCIA	Sample Condition at Receipt Packed Packed
Sample Identification: - "HINDADIH/ROM COAL	Page 1 of 1

Job ID: 201901241528

TEST RESULT

Method of Test IS:1350 Pt.1 1984						
IS:1350 Pt 1 1984						
(Reaffirmed 2013)						
IS:1350 Pt.1 1984						
(Reaffirmed 2013) IS:1350 Pt.1 1984						
(Reaffirmed 2013)						
IS:1350 Pt.1 1984 (Reaffirmed 2013)						
IS:1350 Pt.1 1984						
(Reaffirmed 2013)						
CINDIA SOCINDIA SOCIN						
IS:1350 Pt.2 1970 (Reaffirmed 2015)						
O I DI DI DI DI LI						

Abbr.: ARB- As Received Basis, ADB - Air Dry Basis, DB - Dry Basis

Remarks:

- 1. Sample Not drawn by us. Only Submitted Sample
- 2. A Identification Mark Given by Customer.
- 3. Total Moisture analysis is based on ARB basis.
- 4. Proximate & GCV analysis is based on ADB Basis.

Prepared by



SANJAY GUPTA Authorized Signatory (Quality Manager)







Ganga Vishnu Bhawan, Tikrapara Main Road, Nr. Sanyukta Hospital, Bilaspur (C.G.) 495001,

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Certificate of Analysis

TC Format No.: QR/TC/02 Rev. 01 (17.02.2016)

Name & Address of the Customer:	Test Report No. : 201902021570
M/s Hind Energy & Coal Benefication	Issue Dates of INDIA so: INDO2-02-2019 A SOC INDIA
(India) Ltd., Sai Parisar, Shrikant	Work Order : Verbal
Verma Marg, Bilaspur(CG) NDIA SQUINDIA	WO Date SQCINDIA SQ: 1024-01-2019 SQCINDIA
Nature of Sample : Coal Sample (as Described	Test Required Note to as given below the last as given
by customer) NDIA SQC INDIA SQC INDIA SQC INDIA	SQCINDIA SQCINDIA SQCINDIA SQCINDIA
Sample Quantity 10 kg approx	Date of Registration : 24-01-2019
Sampling Date IA SQC NMA SQC INDIA SQC INDIA	Date of Commencement of Testing : 24-01-2019
Sample Collected by Submitted to Lab	Date of Completion of Testing : 28-01-2019
Sampling Protocolsoc NM SQC INDIA SQC IN	Sample Condition at Receipt SOC : A Packed DIA
Sample Identification: - "HINDADIH/ WASH CO.	AL, DATE:22-01-2019" Page 1 of 1

Job ID: 201901241529

TEST RESULT

Sr. No	Test performed	Unit of measurement	Results on ARB	Results on ADB	Results on DB	Method of Test
CINDIA S	Total Moisture	% by Mass	9.64	SOC INDIA	SQC INDIA	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA S	OCJAIDIA SOCIADIA SOL	Proxima	te Analysis	A	SOC INDIA	SOCINDIA SOCINDIA
CINDIA S	Moisture on ADB	INDIA SOCINDIA	SOCINDIA SOCINDIA	6.18	SOCINDIA SOCINDIA	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA S	Ash Content	% by Mass NDIA SOCINDIA NDIA SOCINDIA NDIA SOCINDIA NDIA SOCINDIA	33.04	34.31	36.56	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA S CINDIA S CINDIA S	Volatile Matter		25.48	26.46	28.20	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA S CIN S IA S CINDIA S	Fixed Carbon by Difference		SOC NO A	33.05 A	35.24	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA SQCINDIA SQCINDIA Gross Calorific Value QCINDIA SQCINDIA SQCINDIA						
CINDIA S	Gross Calorific A Sol Value by Bomb	Kcal/Kg	4162	4321 A	4606	IS:1350 Pt,2 1970 (Reaffirmed 2015)

Abbr.: ARB- As Received Basis, ADB - Air Dry Basis, DB - Dry Basis

Remarks:

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- 2. Aldentification Mark Given by Customer.
- 3. Total Moisture analysis is based on ARB basis.
- 4. Proximate & GCV analysis is based on ADB Basis.

Propared by



SANJAY GUPTA Authorized Signatory (Quality Manager)







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Certificate of Analysis

TC Format No.: QR/TC/02 Rev. 01 (17.02.2016)

Name & Address of the Customer: DIA SQUINDIA	Test Report No. DIA SO: N 201902021571 C INDIA
M/s Hind Energy & Coal Benefication	Issue Date : 02-02-2019
(India) Ltd., Sai Parisar, Shrikant	Work Order INDIA SO: INDVerbal INDIA SOCINDIA
Verma Marg, Bilaspur(CG) NDIA SOCINDIA	WO Date SOCINDIA SOCINDIA
Nature of Sample : Coal Sample (as Described	Test Required : as given below
soby customer) NDIA SOCINDIA SOCINDIA SOCINDIA	SOCINDIA SOCINDIA SOCINDIA SOCINDIA
Sample Quantity 10 kg approx	Date of Registration 22 NDIA 202 1: 24-01-2019
Sampling Date IA SOO NMA SOCINDIA SOCINDIA	Date of Commencement of Testing : 24-01-2019
Sample Collected by Submitted to Lab	Date of Completion of Testing : 28-01-2019
Sampling Protocol of NMA sociation as a social	Sample Condition at Receipt Soc : A Packed
Sample Identification:- "HINDADIH/REJECT C	OAL, DATE:22-01-2019" Page 1 of 1

Job ID: 201901241530

TEST RESULT

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Sr. No	Test performed	Unit of measurement	Results on ARB	Results on ADB	Results on DB	Method of Test
CINDIA S CINDIA S CINDIA S	Total Moisture	% by Mass	4.12	SQC INDIA SQC INDIA SQC INDIA	SOCIADIA SOCIADIA SOCIADIA	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA S	OC INDIA SOC INDIA SO	Proxima	te Analysis	SOFINDIA	SQC INDIA	SQC INDIA SQC INDIA
CINDIA S	Moisture on ADB	INDIA SOCINDIA INDIA SOCINDIA	SOCINDIA SOCINDIA	2.11	SOC INDIA SOC INDIA	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA S	Ash Content	SOC INDIA	71.83	73.33	74.91	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA S	Volatile Matter	% by Mass	13.02	13.29	13.58	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA S	Fixed Carbon by Difference	INDIA SOCINDIA	11.03	11.27	11.51	IS:1350 Pt.1 1984 (Reaffirmed 2013)
CINDIA SQCINDIA SQCINDIA SQCINDIA Gross Calorific Value QCINDIA SQCINDIA SQCINDIA						
CINDIA S	Gross Calorific Value by Bomb	ND Kcal/Kg DIA	501287 A	SQ 1314 A	01342 A	IS:1350 Pt.2 1970 (Reaffirmed 2015)

Abbr.: ARB- As Received Basis, ADB - Air Dry Basis, DB - Dry Basis

Remarks:

- 1. Sample Not drawn by us. Only Submitted Sample
- 2. Identification Mark Given by Customer.
- 3. Total Moisture analysis is based on ARB basis.
- 4. Proximate & GCV analysis is based on ADB Basis.

Prepared by



SANJAY GUPTA Authorized Signatory (Quality Manager)







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Certificate of Analysis

TC Format No.: QR/TC/02 Rev. 01 (17.02.2016)

Name & Address of the Customer:	Test Report No. : 201902161702				
M/s Hind Energy & Coal Benefication	Issue Date C INDIA SOC :NDIA16-02-2019 SOC INDIA S				
Ltd. CINDIA SOCINDIA SOCINDIA SOCINDIA	Work Order Telephonic				
Hindadih(CG) SOC INDIA SOC INDIA SOC INDIA	WO Date CONDIA SOC : 24-01-2019 SOC INDIA S				
Nature of Sample : Coal Sample (as Described Aby customer) DIA SQCINDIA SQC	Test Required DIA SOC : NDI as given below INDIA S				
Sample Quantity 10 kg Approx.	Date of Registration 24-01-2019				
Sampling Date A SQC NM SQC INDIA SQC INDIA	Date of Commencement of Testing : 24-01-2019				
Sample Collected by Submitted Sample	Date of Completion of Testing : 16-02-2019				
Sampling Protocol NM	Sample Condition at Receipt : Found OK				
Sample Identification: "HINDADIH/ ROM COAL/DATE:22-01-2019" Page 1 of 1					

Job ID: 201901241528

TEST RESULT

D	Sr.No.	Test Performed	Unit of	Results	Test of Method
D	A SOCINE	MA SOCINDIA SOCIATION	Measurement	A SOCINDIA SOCI	VDIA SOCINDIA SOC
D	A SOCINE	Arsenic (as As)	% by mass	< 0.001	By AAS
b	A SEINI	Chromium (as Cr)	% by mass	0.0038	By AAS SOC
D	A SOCINE	Lead (as Pb)	% by mass	0.0036	By AAS
	A SACINI	Mercury (as Hg)	% by mass	<0.001	By AAS

- 1. Sample is not drawn by us. The results are applicable only to the submitted sample.
- 2. Identification Mark Given by Customer.
- 3. Analysis on As Received Basis by Our OSL*.
- 4. * Out Source Lab.

Prepared by

BHAT TIWARI **Authorized Signatory** (Dy. Tech.Manager)





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Certificate of Analysis

TC Format No.: OR/TC/02 Rev. 01 (17 02 2016)

Name & Address of the Customer:	Test Report No. : 201902161703
M/s Hind Energy & Coal Benefication	Issue Date C NDIA 50: NDIA 16-02-2019
60 (1) Ltd. QC INDIA SQC INDIA SQC INDIA SQC INDIA	Work Order No. 300: No. Telephonic
Hindadih(CG) SOC INDIA SOC INDIA	WO Date 24-01-2019
Nature of Sample : Coal Sample (as Described by customer)	Test Required : as given below
Sample Quantity 10 kg Approx.	Date of Registration OC NOIA SOCIAL 24-01-201
Sampling Date A SOC NM SOCINDIA SOCINDIA	POLICE COSC INDIA SOCIADIA SOCIADIA SOCIADIA SOCIADIA
Sample Collected by Submitted Sample	A CONTRACTOR OF THE PROPERTY O
Sampling Protocol NM SQC INDIA SQC II	Sample Condition at Possint
Sample Identification: "HINDADIH/ WASH COAL/	ASTE 32 OF COLO MIDIA SOCIALINA SOLI MINI SOCIALINA
SQC INDIA SQC INDIA SQC INDIA SQC INDIA SQC INDIA	Page 1 of

Job ID: 201901241529

TEST RESULT

Sr.No. Test Performed	Unit of	Results	Test of Method
IDIA SOCINDIA SOCINDIA SOCIAL	Measurement	A SOCINDIA SOC	INDIA SQC INDIA SQC
1. (IN Arsenic (as As)	% by mass	<0.001	By AASA SOC
2. Chromium (as Cr)	% by mass	0.0021	By AAS
Lead (as Pb)	% by mass	0.0033	STATE OF THE PARTY
4. Mercury (as Hg)	% by mass	<0.001	By AAS
Abbr.: NM - Not Mention	70 by mass	A 50.0014 SUC	By AAS A SOC

Remarks:

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- 3. Analysis on As Received Basis by Our OSL*.
- 4. * Out Source Lab.

PRABHAT TIWARI **Authorized Signatory** (Dy. Tech.Manager)







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Certificate of Analysis

TC Format No.: QR/TC/02 Rev. 01 (17.02.2016)

Name & Address of the Customer: DIA SOCINDIA	Test Report No. : 201902161704
M/s Hind Energy & Coal Benefication	Issue Date : 16-02-2019
(I) Ltd., socindia socindia socindia socindia	Work Order NDIA SO: ND Telephonic SOC NDIA
Hindadih(CG)	WO Date SOC INDIA SO: 1024-01-2019 SOC INDIA
Nature of Sample: Coal Sample (as Described by customer)	Test Required No as given below No as given below
Sample Quantity 10 kg Approx.	Date of Registration 24-01-2019
Sampling Date DIA SQ NMIA SQCINDIA SQCINDIA	Date of Commencement of Testing : 24-01-2019
Sample Collected by Submitted Sample	Date of Completion of Testing : 16-02-2019
Sampling Protocol NM A SOCINDIA SOCIA	Sample Condition at Receipt : Found OK
Sample Identification: "HINDADIH/REJECT COAL	/DATE:22-01-2019 "DIA SOC INDIA SOC IN Page 1 of 1

Job ID: 201901241530

TEST RESULT

Sr.No.	Test Performed	Unit of Measurement	Results	Test of Method
NDIA GOCI	Arsenic (as As)	% by mass	< 0.001	By AAS
NDIA 2.QCH	Chromium (as Cr)	% by mass	0.0024	By AAS
NOIA 3.OCT	Lead (as Pb)	% by mass	0.0048	By AAS
DIA 4.QC	Mercury (as Hg)	% by mass	< 0.001	By AAS

Abbr.: NM - Not Mention

Remarks:

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- 2. Identification Mark Given by Customer.
- 3. Analysis on As Received Basis by Our OSL*.

4. * Out Source Lab.

Prepared by



PRABHAT TIWARI Authorized Signatory (Dy. Tech. Manager)